

Utility of National Spatial Data for Conservation Design Projects

Steve Williams
Biodiversity and Spatial Information Center
North Carolina State University

PIF CDW
St. Louis, MO
April 11, 2006

Types of Data

◆ Biological

- Land cover, species occurrence (surveys)...

◆ Physical

- Terrain, soils...

◆ Climatic

- Precipitation, temperature...

EROS Data Center



USGS Home
Contact USGS
Search USGS

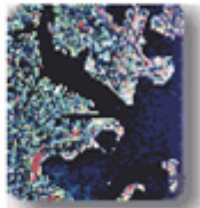
Earth Resources Observation and Science (EROS)

Products Science NASA LP DAAC Satellite NSLRSDA About EROS

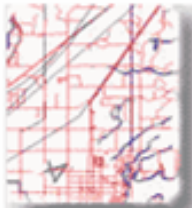
Image Gallery



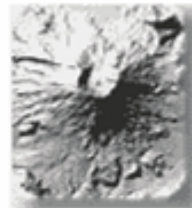
A leading source of land information for exploring our changing planet.



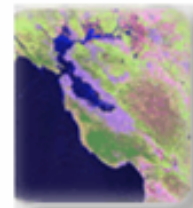
Aerial



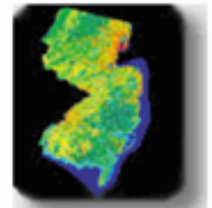
Map



Elevation



Satellite



Land Cover

EDC Land Cover Products

◆ National Land Cover Dataset 1992 (NLCD 92)

- A U.S. land cover classification product based primarily on 1992 Landsat Thematic Mapper (TM) data.
- 30m² cell resolution
- 21 classes

◆ Land Use and Land cover Data (LULC)

- A global land cover database primarily derived from 1992 to 1993 1-km AVHRR data.

◆ AVHRR NDVI Composites

- Weekly and biweekly NDVI composites based on 1-km AVHRR data (1980 to present).

<http://edc.usgs.gov>

National Land Cover Dataset 1992 (NLCD 1992)

[Product Description](#)

[View Sample Data](#)

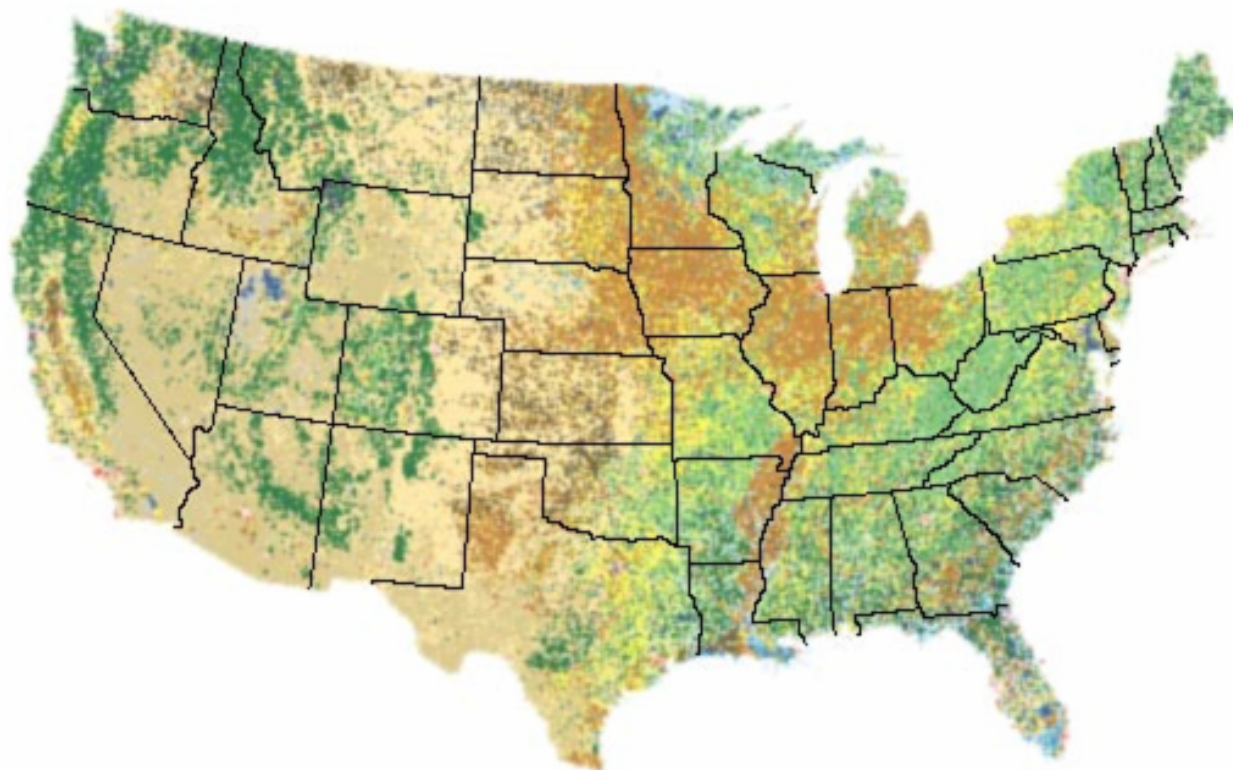
[Download NLCD Products](#)

[Accuracy Assessment](#)

[NLCD Land Cover Statistics](#)

[Program Partners](#)

[Frequently Asked Questions](#)



EDC Elevation Products

◆ National Elevation Dataset (NED)

- Seamless 10- and 30-meter digital raster elevation data covers the conterminous U.S., Alaska, Hawaii, Puerto Rico, and Virgin Islands. Features periodic updates to incorporate the best available source data (primarily USGS 10 and 30-meter DEMs).

◆ Shuttle Radar Topography Mission (SRTM)

- Seamless SRTM "Finished" 1 arc second (30 meter posting) digital raster elevation covers the United States and its territories and possessions. Seamless SRTM "Finished" 3 arc second (90 meter posting) digital raster elevation covers the globe between 60 degrees N and 56 degrees S latitude. SRTM "Finished" was supplied by NGA.

<http://edc.usgs.gov>

MRLC Consortium

[Home](#)[About](#)[Products](#)[News](#)[FAQs](#)[Publications](#)[Contact](#)

Shortcuts

Download Data

[Land Cover \(NLCD\)](#)

Order Imagery

[MRLC 1992](#)[MRLC 2001](#)

Other Data Links

[GloVis](#)[Seamless Server](#)

Other Sites

[EROS Data Center](#)[EPA Geospatial](#)

Multi-Resolution Land Characteristics Consortium

The Multi-Resolution Land Characteristics (MRLC) Consortium is a group of federal agencies who first joined together in 1993 ([MRLC 1992](#)) to purchase Landsat 5 imagery for the conterminous U.S. and to develop a land cover dataset called the [National Land Cover Dataset \(NLCD 1992\)](#). In 1999, a second-generation MRLC consortium (see logos) was formed to purchase three dates of Landsat 7 imagery for the entire United States ([MRLC 2001](#)) and to coordinate the production of a comprehensive land cover database for the nation called the [National Land Cover Database \(NLCD 2001\)](#).

The MRLC consortium is specifically designed to meet the current needs of Federal agencies for nationally consistent satellite remote sensing and land-cover data. However, the consortium also provides imagery and land cover data as public domain information, all of which can be accessed through this website.

MRLC Related News

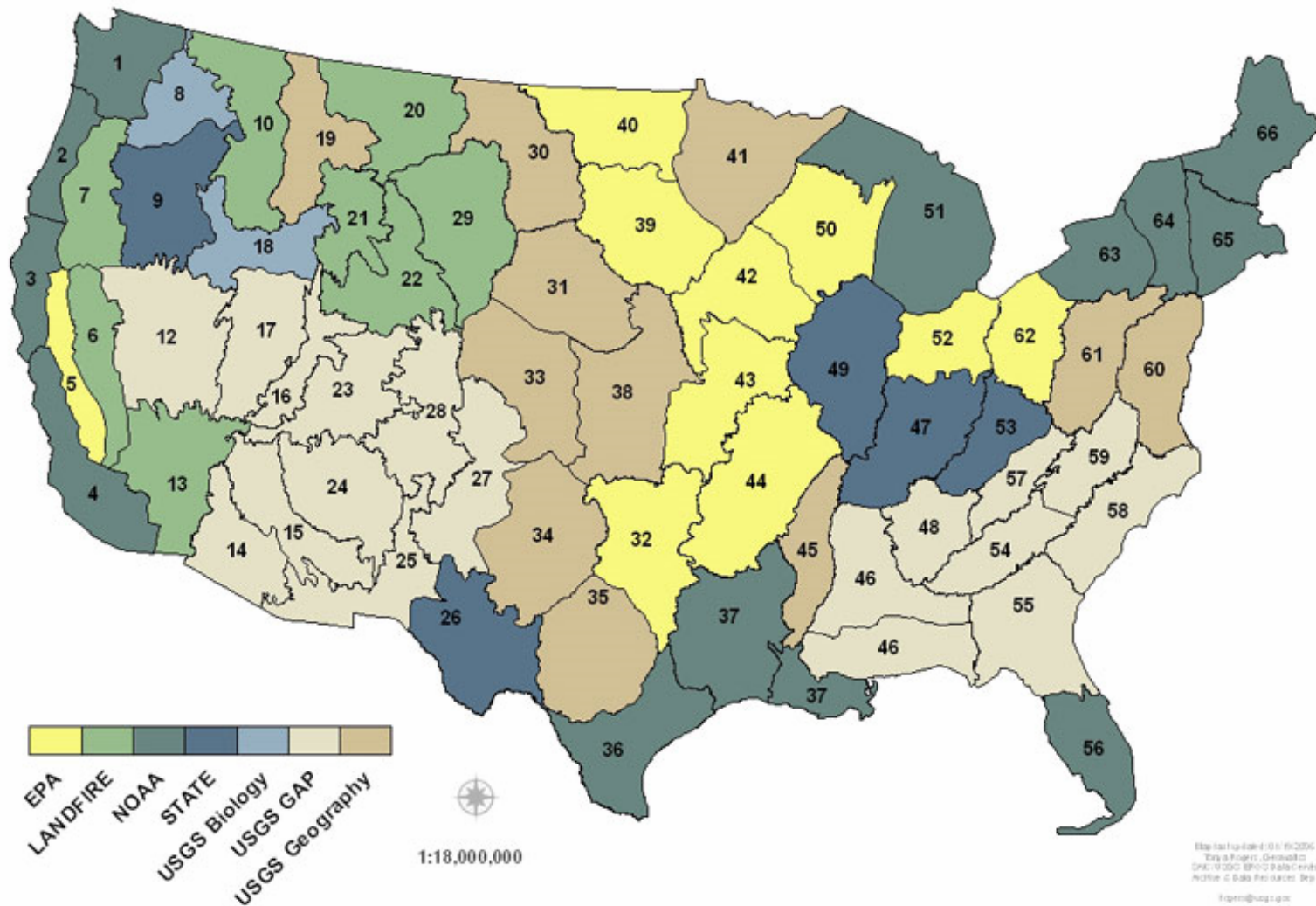
[NLCD Seamless Data Anomalies](#)[NLCD 2001 Spatial Metadata Available](#)[EPA](#)[NOAA](#)[USFS](#)[USGS](#)[LANDFIRE](#)[BLM](#)[NRCS](#)[NPS](#)[NASA](#)[USFWS](#)[OSM](#)

NLCD 2001 Land Cover Class Definitions (27 classes)

- ◆ 11. Open Water
- ◆ 12. Perennial Ice/Snow
- ◆ 21. Developed, Open Space
- ◆ 22. Developed, Low Intensity
- ◆ 23. Developed, Medium Intensity
- ◆ 24. Developed, High Intensity
- ◆ 31. Barren Land (Rock/Sand/Clay)
- ◆ 32. Unconsolidated Shore*
- ◆ 41. Deciduous Forest
- ◆ 42. Evergreen Forest
- ◆ 43. Mixed Forest
- ◆ 51. Dwarf Scrub
- ◆ 52. Shrub/Scrub
- ◆ 71. Grassland/Herbaceous
- ◆ 72. Sedge/Herbaceous
- ◆ 73. Lichens
- ◆ 74. Moss
- ◆ 81. Pasture/Hay
- ◆ 82. Cultivated Crops
- ◆ 90. Woody Wetlands
 - 91. Palustrine Forested Wetland*
 - 92. Palustrine Scrub/Shrub Wetland*
 - 93. Estuarine Forested Wetland*
 - 94. Estuarine Scrub/Shrub Wetland*
- ◆ 95. Emergent Herbaceous Wetlands
 - 96. Palustrine Emergent Wetland (Persistent)*
 - 97. Estuarine Emergent Wetland*
 - 98. Palustrine Aquatic Bed*
 - 99. Estuarine Aquatic Bed*

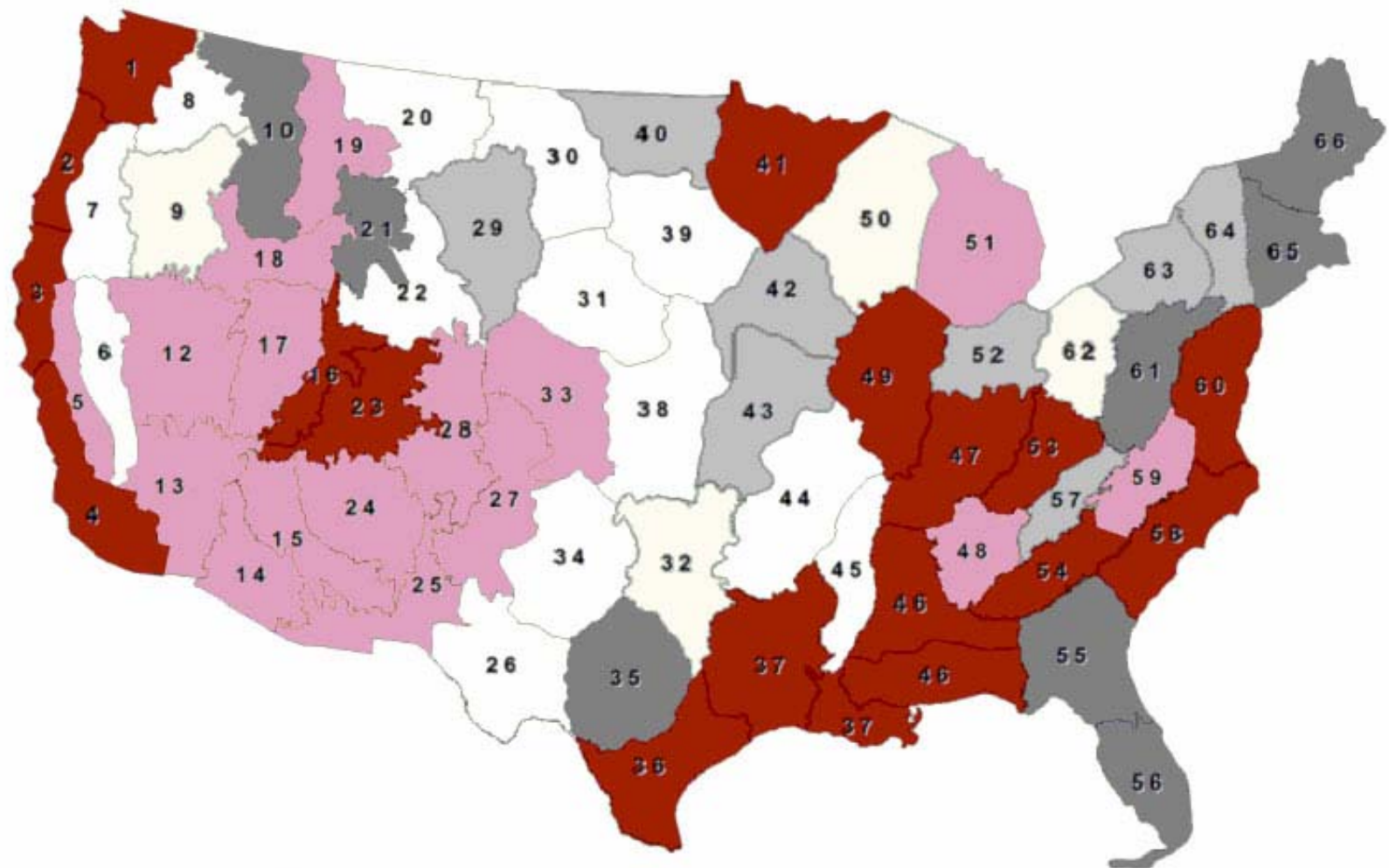
<http://www.mrlc.gov/index>

Major NLCD 2001 Land Cover Partner, By Mapping Zone



<http://www.mrlc.gov/index>

2001 National Land Cover Mapping Status



Legend (% completed)

0 - 10

11 - 20

21 - 40

41 - 60

61 - 80

81 - 100

<http://www.mrlc.gov/index>

MRLC Consortium provides free online data with NED, SRTM, Landsat, maps, orthoimagery, elevation and more. - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

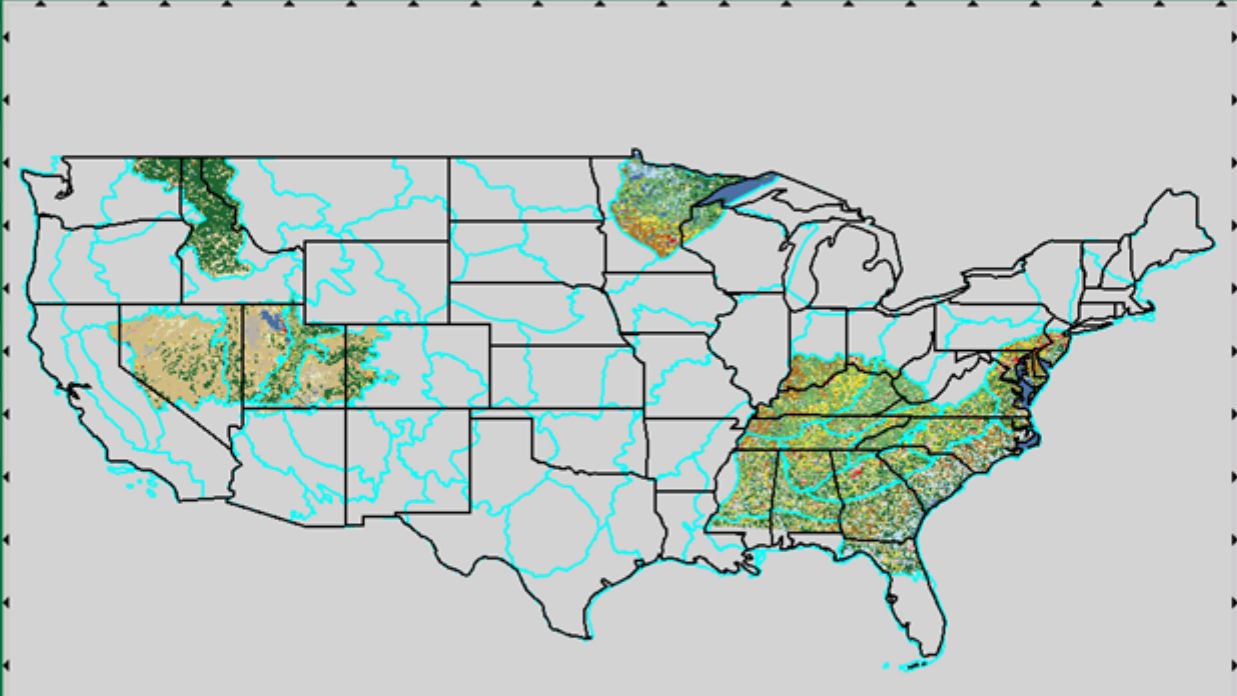
http://gisdata.usgs.net/website/MRLC/viewer.php

Google MapQuest.Com Map... NCSU NCSU - Login NPR: All Songs Cons...

Conservation Biology Institute MRLC Consortium provides free onli...

MRLC Consortium

Back to Main Page



Scale Information

Out Scale = 1:25,784,025 In

Layers

Display Download

- ▶ Places (Names)
- ▶ Transportation
- ▼ Boundaries
 - ☒ National Atlas States
 - ☐ Urban Area Data Coverage
 - ☒ NLCD 2001 Mapping Zones
- ▶ Layer Extent
- ▶ Hydrography
- ▼ Land Cover
 - ☒ NLCD 2001 Land Cover
 - ☐ NLCD 2001 Impervious Surface
 - ☐ NLCD 2001 Forest Canopy
 - ☐ NLCD 1992
- ▶ Elevation

NLCD 2001 Currently Available

U.S. Department of the Interior | U.S. Geological Survey | USGS for Earth Resources Observation and Science (EROS)
URL: /Website/MRLC/ | Last Update: 4/15/05 || Maintainer: [Comments and Suggestions](#) | [Disclaimer](#)

Transferring data from gisdata.usgs.gov

AdBlock

<http://www.mrlc.gov/index>

gap



KEEPING COMMON SPECIES COMMON



National Biological Information Infrastructure

GAP Home

Maps, Data & Reports

Projects

Research & Applications

Support & Tools

GAP Home



GAP Home

GAP Home

About GAP

Mission

Contact Us

Literature

FAQs

Meetings

How To Conduct a Gap Analysis

The GAP Analysis Program

"Keeping Common Species Common"



Red Fox, *Vulpes vulpes*
[[NBII Image Gallery](#)]

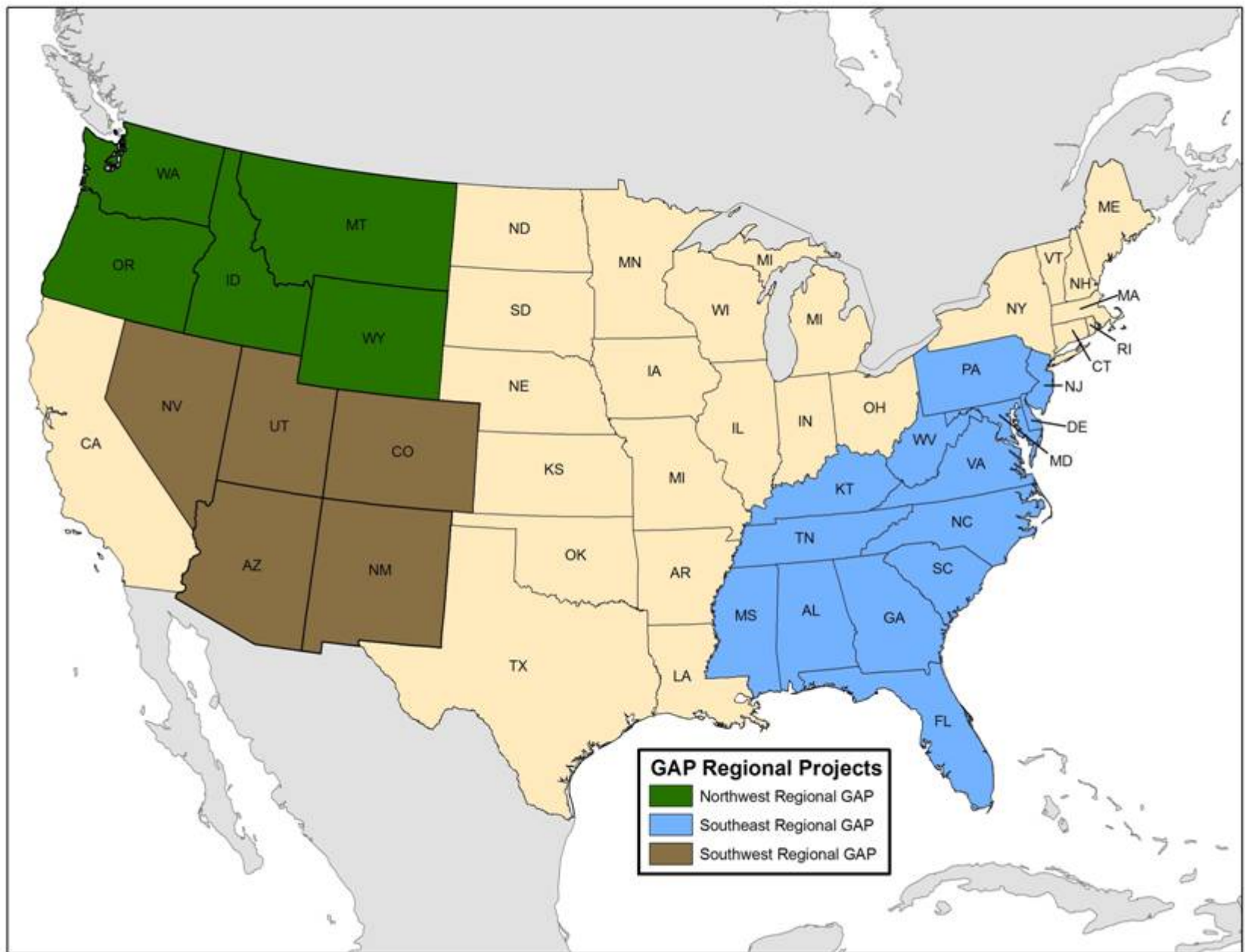
The goal of the GAP Analysis Program is to keep common species common by identifying those species and plant communities that are not adequately represented in existing conservation lands. Common species are those not currently threatened with extinction. By identifying their habitats, GAP Analysis gives land

Keeping Common Species Common



click on an image to view the interactive mapping application highlighting the species predicted habitat distribution

<http://gapanalysis.nbii.gov/portal/serv>

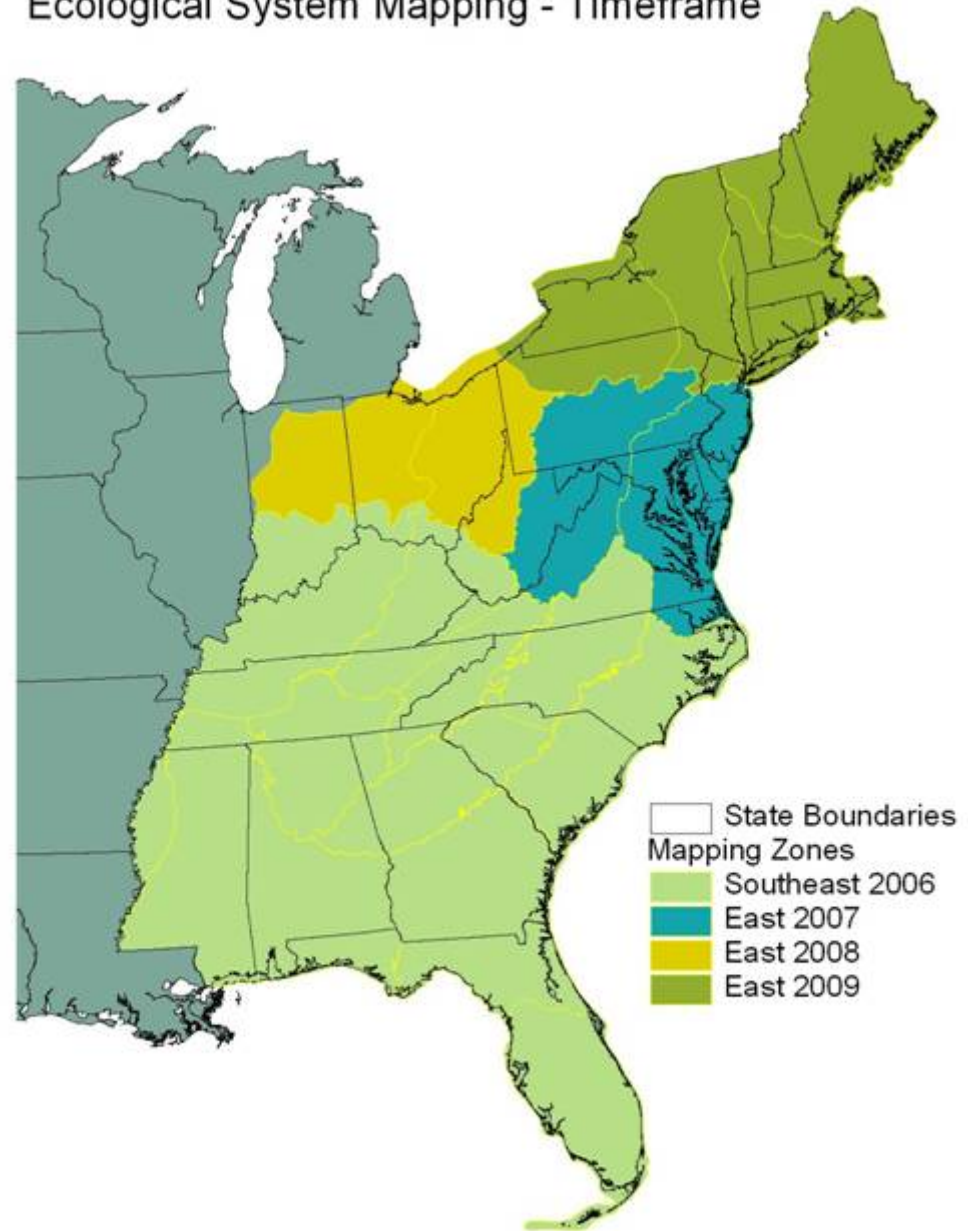


<http://gapanalysis.nbii.gov/portal/serv>

Gap Analysis Land Cover for the Eastern US

- ◆ Based on NatureServe Ecological Systems
- ◆ 135 classes expected in Southeast
- ◆ Basis for habitat modeling for vertebrate species

Ecological System Mapping - Timeframe



<http://gapanalysis.nbii.gov/portal/serv>



Home

About

Activities

Documents

Products

Schedule

Technology
Transfer

Uses

Principal LANDFIRE
Partners:



Contact Us

FAQs

Sitemap

LANDFIRE is a five-year, multi-partner wildland fire, ecosystem, and wildland fuel mapping project. This project will generate consistent, comprehensive maps and data describing vegetation, fire, and fuel characteristics across the United States. These maps can assist in prioritizing and planning hazardous fuel reduction and ecosystem restoration efforts. The consistent and comprehensive nature of LANDFIRE methods ensures that data will be nationally relevant, while the 30-meter grid resolution assures that data can be locally applicable. LANDFIRE meets agency, partner, and stakeholder needs for data to support landscape fire management planning, prioritization of fuel treatments, collaboration, community and firefighter protection, and effective resource allocation.

LANDFIRE's objective is to provide consistent, nationwide data describing wildland fuel, existing vegetation composition and structure, historical vegetation conditions, and historical fire regimes to assist:

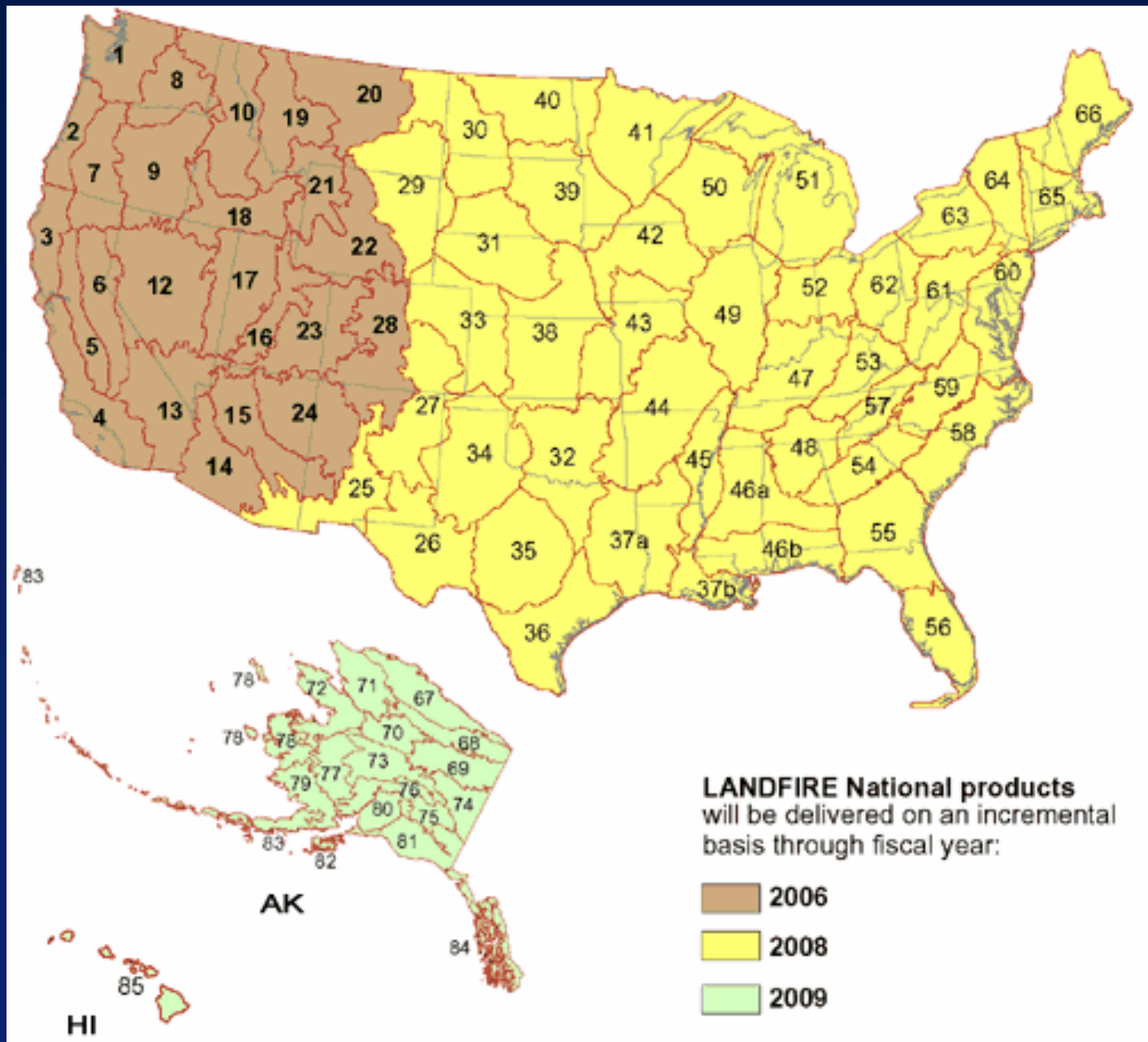
- Identification of areas at risk due to accumulation of hazardous fuel
- Prioritization of hazardous fuel reduction projects
- Improvement of coordination between agencies with regard to fire and other resource management
- Modeling real-time fire behavior to support tactical decisions to ensure sufficient wildland firefighting capacity and safety
- Modeling potential fire behavior and effects to strategically plan projects for hazardous fuel reduction and the restoration of ecosystem integrity on fire-adapted landscapes



Got Data?

Find out how to share
your data to ground-truth
LANDFIRE maps.

<http://www.landfire.gov>



<http://www.landfire.gov>

LANDFIRE Data Products

FARSITE Fuel layers:

- ◆ 13 Anderson (1982) Fire Behavior Fuel Models
- ◆ 40 Scott and Burgan (2005) Fire Behavior Fuel Models
- ◆ Forest Canopy Bulk Density
- ◆ Forest Canopy Base Height
- ◆ Forest Canopy Height
- ◆ Forest Canopy Cover
- ◆ Elevation
- ◆ Aspect
- ◆ Slope

Fire Regime layers:

- ◆ FRCC
- ◆ FRCC Departure Index Fire Regime Groups
- ◆ Mean Fire Return Interval
- ◆ Percent Low-severity Fire
- ◆ Percent Mixed-severity Fire
- ◆ Percent Replacement-severity Fire
- ◆ Succession Classes

Vegetation layers:

- ◆ Environmental Site Potential
- ◆ Biophysical Settings
- ◆ Existing Vegetation
- ◆ Existing Vegetation Height
- ◆ Existing Vegetation Cover
- ◆ Vegetation Dynamics Models

Fire Effects layers:

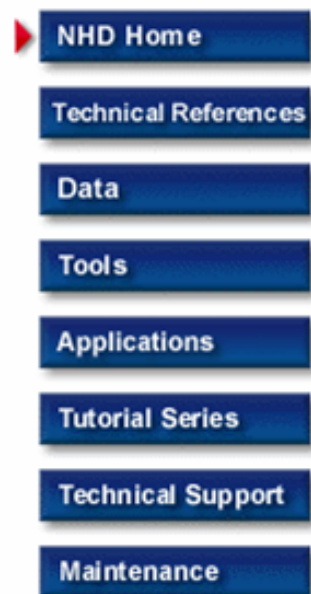
- ◆ Fuel Loading Models

<http://www.landfire.gov>

Physical

Based on
Digital Line
Graph
(DLG) data
and
EPA Reach File
(RF3) data

Initially 1:100k,
but 1:24k
updates are
almost
complete for US



National Hydrography Dataset

The National Hydrography Dataset (NHD) is a comprehensive set of digital spatial data that contains information about surface water features such as lakes, ponds, streams, rivers, springs and wells. Within the NHD, surface water features are combined to form "reaches," which provide the framework for linking water-related data to the NHD surface water drainage network. These linkages enable the analysis and display of these water-related data in upstream and downstream order.

The NHD is based upon the content of USGS Digital Line Graph (DLG) hydrography data integrated with reach-related information from the EPA Reach File Version 3 (RF3). The NHD supersedes DLG and RF3 by incorporating them, not by replacing them. Users of DLG or RF3 will find the National Hydrography Dataset both familiar and greatly expanded and refined.

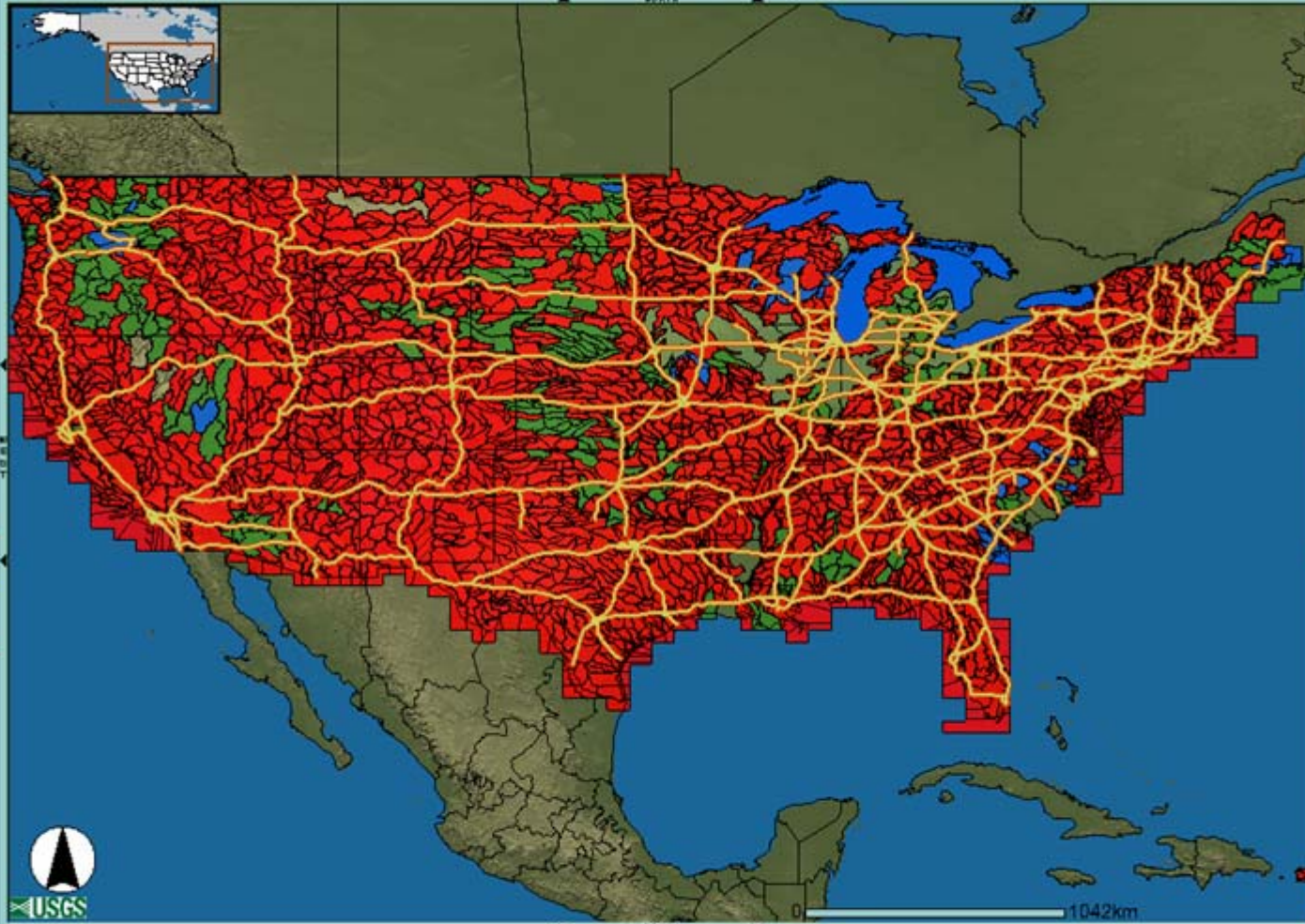
While initially based on 1:100,000-scale data, the NHD is designed to incorporate and encourage the development of higher resolution data required by many users.



<http://nhd.usgs.gov>

NHD GEODATABASE

- Overview
- Zoom In
- Zoom Out
- Zoom State
- Zoom Subbasin
- Previous Extent
- Full Extent
- Pin
- Identify
- Measure
- Clear
- Print
- Extract Functions
 - HOW TO EXTRACT
 - Polygon Extract
- Help



- Scale
- Layers Legend
- NHD
- Interstates
 - States
- NHDStatus - High
- Null
 - Planned
 - In-Work
 - Available
 - Avail-Revised Planned
 - Avail-Revised In-Work
 - Shaded Relief

Metadata | NHD Home | Partners | Map Services | What's New | Staged SubRegions | You may need to disable popup block software. Best viewed with Internet Explorer.

U.S. Department of the Interior, U.S. Geological Survey, Lakewood, CO, USA

URL: <http://nhdgeo.usgs.gov/R62>

Contact: NHD@usgs.gov

This web site last modified on: 01/20/2006 13:58:58

[Privacy Statement](#) | [Disclaimer](#) | [FOIA](#) | [Accessibility](#)



Redraw Map

FIRSTGOV

<http://nhd.usgs.gov>

Natural Resources Conservation Service (NRCS)

Soil Data

“Soil Data Viewer provides users access to soil interpretations and soil properties while shielding them from the complexity of the soil database”

The screenshot displays the NRCS Soils web site interface. At the top, the header includes the United States Department of Agriculture logo, the NRCS Natural Resources Conservation Service name, and a 'Soils' tab. Navigation links include 'Soils Home', 'About Us', 'Soil Survey', 'Soil Use', 'Soil Education', 'Photo Gallery', 'Technical References', and 'Partnerships'. A search bar is located on the left with a 'GO' button. Below the search bar is a 'Quick Access' section with links to 'Hydric Soils', 'List of Published Soil Surveys', 'National Cooperative Soil Survey (NCSS)', 'NRCS Technical Resources', 'Official Soil Series Descriptions (OSD)', 'Online Soil Surveys', 'Soil Data Mart', 'Soil Lab Data', 'Soil Quality', 'Soil Science Glossary', 'Soil Taxonomy', 'State Soils', 'STATSGO', 'MLRA', 'Web Soil Survey', and 'World Soils'. The main content area features a welcome message, a 'Soil Data Viewer' section with an image of soil cores and a description of the tool, a 'Web Soil Survey' section with an image of a person at a computer and a description of the online viewing tool, and a 'SOILS - Tools for Educators' section with an image of a person at a computer and a description of the educational tool. On the right side, there is an 'Information For:' section with links to 'Geographers', 'Soil Scientists', 'Land Use Managers', 'Teachers and Students', and 'City and County Planners'. Below this is a 'Soils In The News' section with links to 'Agriculture Department finds different soil samples in survey', 'Sewage rules could stall new home starts', 'USDA puts soils data on the Internet', 'Web Soil Survey now available', 'U.S. Soil Survey Now on Web', 'Ag. Sec. Mike Johanns announces Web soil survey', and 'Park soils study nears completion'. At the bottom, there is a 'List of Soil Surveys by State' section with an image of a map and a description of the list. The footer includes the USGS logo and the text 'science for a changing world'.

<http://soils.usda.gov>

NRCS – STATSGO Database

- ◆ The STATSGO database is being updated and renamed to the Digital General Soil Map of the United States. The update is scheduled for completion April 30, 2006.
- ◆ Scale 1:250,000

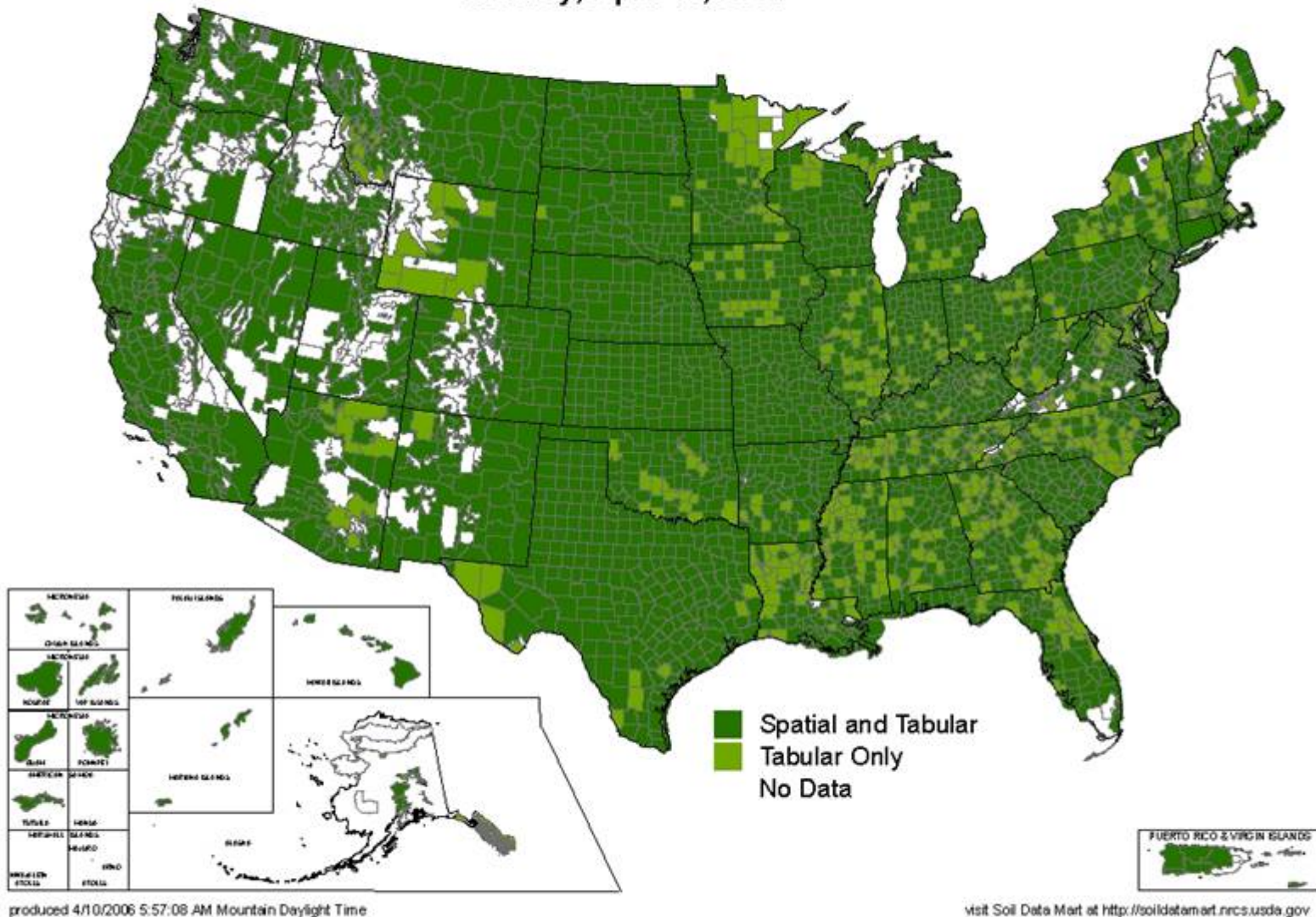
NRCS – SSURGO Database

- ◆ Soil Survey Geographic Database
- ◆ Detailed county based soil surveys
- ◆ Completion of the SSURGO data digitizing is scheduled for 2008

<http://soildatamart.nrcs.usda.gov>

Available Soil Survey Data

Monday, April 10, 2006



<http://soildatamart.nrcs.usda.gov>



+ United States Department of Agriculture +

+ Service Center Initiative +

Get Data Login Check Order Status Maps News FAQ About Contact Administration

the one stop source of
natural resources data

+ Natural Resources Conservation Service +
+ Farm Service Agency +
+ Rural Development +

The Geospatial Data Gateway provides One Stop Shopping for natural resources or environmental data at anytime, from anywhere, to anyone. **The Gateway** allows you to choose your area of interest, browse and select data from our catalog, customize the format, and have it downloaded or shipped on CD.

SYSTEM STATUS 4/3/2006

8:00 AM MST

NAIP products are taking about two days to process due to high demand. Please download completed orders before placing any new orders and use a ftp download program as describer in FAQ 24 to reduced congestion at the data providers.

Geospatial

Data Gateway



About WED
 What's New
 Research Projects
 Research Publications
 How to Locate the Western Ecology Division
 Links of Interest
 Models, Statistical Programs & Data Sets
 EPA Aquatic Resources Monitoring Web Site
 Opportunities
 Request a Speaker
 EPA People Locator



Ecoregion Maps and GIS Resources:

- [Level I Ecoregions](#)
- [Level II Ecoregions](#)
- [Level III Ecoregions](#)
- [Level IV Ecoregions](#)
- [Publications](#)
- [FTP Site](#)
- [Related Links](#)
- [Contacts](#)

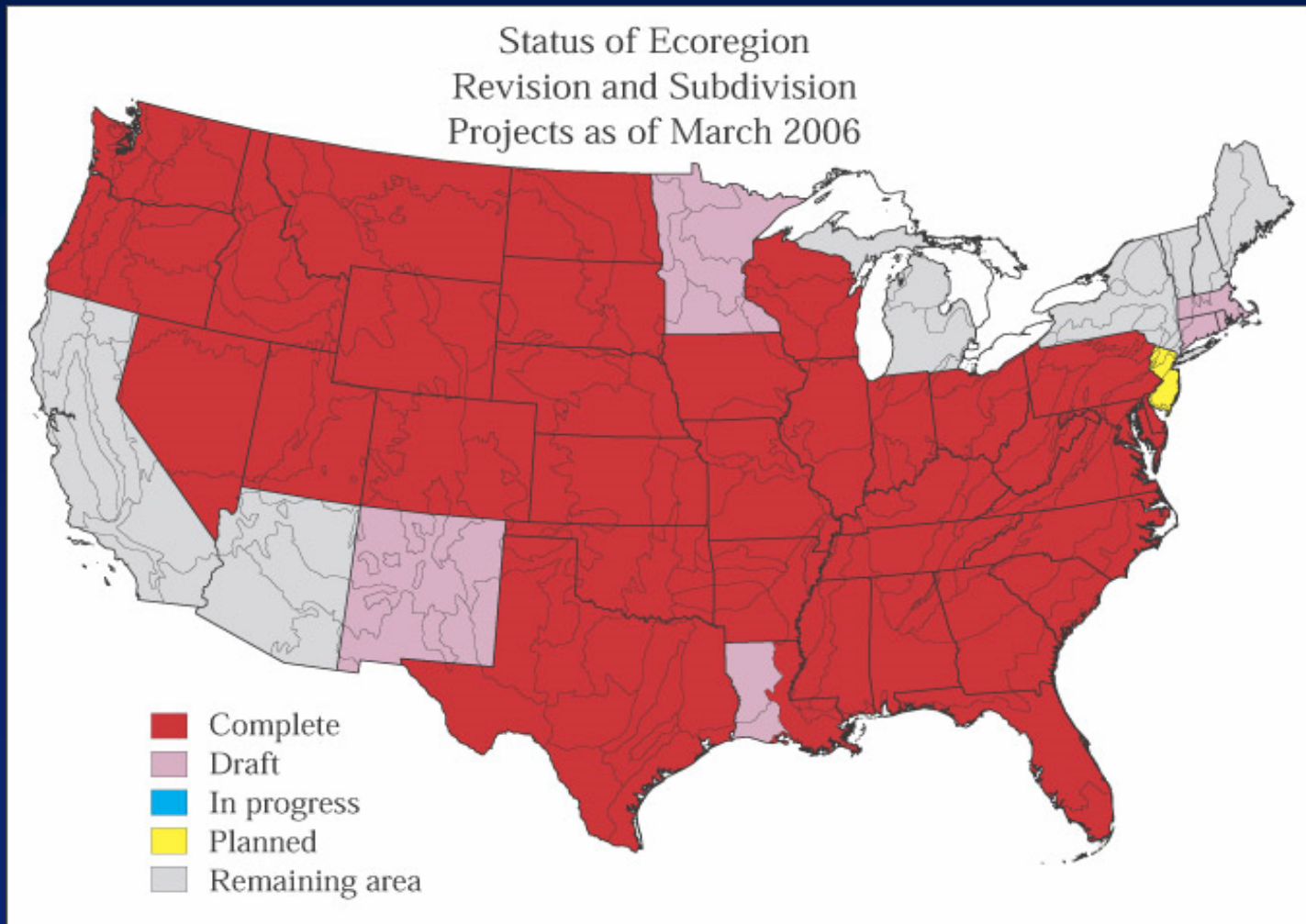
Ecoregions denote areas of general similarity in ecosystems and in the type, quality, and quantity of environmental resources. They are designed to serve as a spatial framework for the research, assessment, management, and monitoring of ecosystems and ecosystem components. By recognizing the spatial differences in the capacities and potentials of ecosystems, ecoregions stratify the environment by its probable response to disturbance. These general purpose regions are critical for structuring and implementing ecosystem management strategies across federal agencies, state agencies, and nongovernment organizations that are responsible for different types of resources within the same geographical areas.

Ecoregion Links

[Ecoregion Home](#) | [Level I](#) | [Level II](#) | [Level III](#) | [Level IV](#) | [Publications](#) | [FTP Site](#) | [Links](#) | [Contacts](#)

EPA Ecoregion Products

Omernik Ecoregions Level 4



Avian Data



Highlights

[Search Rare Species Data by County or Watershed](#)

[More Images Than Ever](#)

[Ecological Systems Data](#)

Additional Data Resources

Use our [InfoNatura](#) website to find data on the animals of Latin America.

[Find](#) more NatureServe data.

Copyright © 2006 NatureServe

Welcome to **NatureServe Explorer**, an authoritative source for information on more than 65,000 plants, animals, and ecosystems of the United States and Canada. Explorer includes particularly in-depth coverage for rare and endangered species.



Search the database for [species](#) or [ecological communities & systems](#).

NatureServe Explorer is a product of NatureServe and its natural heritage member programs.

You can easily find information on:

- scientific and common names
- conservation status
- distribution maps
- life histories, conservation needs, and more

[NatureServe Website](#) | [Support Us](#) | [Feedback](#) | [Offices](#)
[Site Search](#) | [Thanks To](#)

Website requires Internet Explorer 5.0 or Netscape 4.06 or higher .

<http://www.natureserve.org/explorer>

Birds of NA



THE BIRDS OF NORTH AMERICA ONLINE

From the CORNELL LAB of ORNITHOLOGY
and the AMERICAN ORNITHOLOGISTS' UNION

[Home](#)[About](#)[My Account](#)[Help](#)[Contact](#)[Sign In](#)

What is Birds of North America?

View the Demos

Try out these free accounts to get an idea of the richness and ease of use that BNA Online offers.

- | | |
|--|---|
| ▶ Common Goldeneye | ▶ Ivory-billed Woodpecker |
| ▶ Peregrine Falcon | ▶ Yellow Warbler |
| ▶ Semipalmated Sandpiper | ▶ Fox Sparrow |

Search the Full BNA

Finding the information you need has never been faster or more comprehensive. Search through over 700 species by common name, scientific name, or keywords.

[Go!](#)

powered by



Sign Up and Subscribe

Get full access to over 700 species accounts in the BNA series, now updated regularly.

**INSTITUTIONAL
SUBSCRIPTIONS
and FREE TRIAL** ▶

**INDIVIDUAL
SUBSCRIPTIONS** ▶

Learn More

- [30 Day Institutional Trial](#)
- [Download Fact Sheet \(PDF\)](#)
- [Complete List of Species](#)



Peregrine Falcon

Falco peregrinus

Order FALCONIFORMES - Family FALCONIDAE

BNA No. 660

Authors: CLAYTON M. WHITE, NANCY J. CLUM,
TOM J. CADE, W. GRAINGER HUNT

[Recommended Citation](#)

► **Species Account**

► **References**

► **Sound & Video**

► **Image Gallery**

Section Menu:

- INTRODUCTION
- DISTINGUISHING CHARACTERISTICS
- DISTRIBUTION
- SYSTEMATICS
- MIGRATION
- HABITAT
- FOOD HABITS
- SOUNDS
- BEHAVIOR
- BREEDING
- DEMOGRAPHY AND POPULATIONS
- CONSERVATION AND MANAGEMENT
- APPEARANCE
- MEASUREMENTS
- PRIORITIES FOR FUTURE RESEARCH
- ACKNOWLEDGMENTS
- ABOUT THE AUTHORS
- OTHER NAMES
- RECOMMENDED CITATION

Section 1 of 19

[Next Section](#) ►

INTRODUCTION

One of the most widely distributed of warm-blooded terrestrial vertebrates, the Peregrine Falcon occurs from the tundra to the Tropics, from wetlands to deserts, from maritime islands to continental forests, and from featureless plains to mountain crags—it is absent as a breeder only from the Amazon Basin, the Sahara Desert, most of the steppes of central and eastern Asia, and Antarctica. This depth and breadth of habitat reflects a prodigiously catholic diet that includes many hundreds of species of birds, some bats, and a few rodents, and yet a commonality of ways in which Peregrines pursue them. The presence of this species in the pristine landscape has no doubt influenced the morphological and behavioral evolution of countless avian species. Even so, some populations of Peregrines are food specialists; in the Pacific Northwest, for example, enormous numbers of a few marine bird species support one of the densest-known Peregrine populations.

The often-held image of the Peregrine as a symbol of wilderness diminishes when one sees this falcon breeding on metropolitan bridges and urban skyscrapers or watches tundra migrants



© Arthur Morris / Birds As Art

[+ zoom](#)

Peregrine Falcon standing on its prey, a pigeon; Jones Beach St. Pk., LI, NY; Feb.

[About the photographs](#)



Raw BBS Data Search Menu

Species List for a route	State Summary by year	Stop/Location by State/Route	Advanced Search
Species Totals for a route, by year		Stop/Location by FWS Region	FTP Site

Includes data through 2005.

These data are provisional.

Although these data have undergone editing and review, not every error has been detected and eliminated prior to posting. The BBS database is constantly being revised as additional errors are identified. Thus the same data sets retrieved on separate occasions using the interactive programs (i.e., all data retrieval options except FTP files) may have inconsistencies due to corrections made to the database in the intervening time period. Corrections are identified in the [DataFix.txt](#) file located on the FTP site. Also see the [databasecorrections.txt](#) file on the FTP site for updates regarding the FTP data files.

Descriptions of Data Request Functions:

Species List -- Returns cumulative list of bird species detected on route. Format: English common names.

Species Totals -- Returns table listing total number of individuals detected of each bird species found on route for each year the route was run. Format: English common names on left, years across top; numbers are total individuals per year; dashes indicate route was not sampled that year.

Advanced Search -- Permits small to medium sized queries of the BBS database ranging in complexity from data for a single bird species or for an entire state. Species are identified in the result sets by species identification numbers (AOU numbers), no common names are used. Weather and route history data also available via Advanced Search.

FTP Site -- Contains the entire BBS data set divided into manageable files (i.e. species groups or states). Use this site for large data requests such as an entire region or the entire BBS data set. Once at the FTP site see the "Readme.txt" file for complete descriptions of each file type.





Bird Conservation Node

NBII Home

About NBII ☐

Current
Biological
Issues ☒

Biological
Disciplines ☐

Geographic
Perspectives ☐

Teacher
Resources ☐

Data &
Information
Resources ☐

Search ☐

Contact Us ☐



Bird Conservation

[Background](#)

NBII Bird Conservation Node

[Conservation Initiatives](#)

Institutional infrastructure of North American bird conservation

[Species Information](#)

Bird life history information along with useful identification tips and species lists

[Population and Habitat Data](#)

Links to monitoring programs, data, and mapping tools supporting bird conservation

[Bird Conservation Node Partners](#)

Agency and organization partners

[Conferences](#)

Conferences and meetings of interest to the ornithological community.




Current Issues: Visit the [NBII Wildlife Disease Information Node](#) for information about [Avian Influenza \(Bird Flu\)](#), and [West Nile Virus](#).

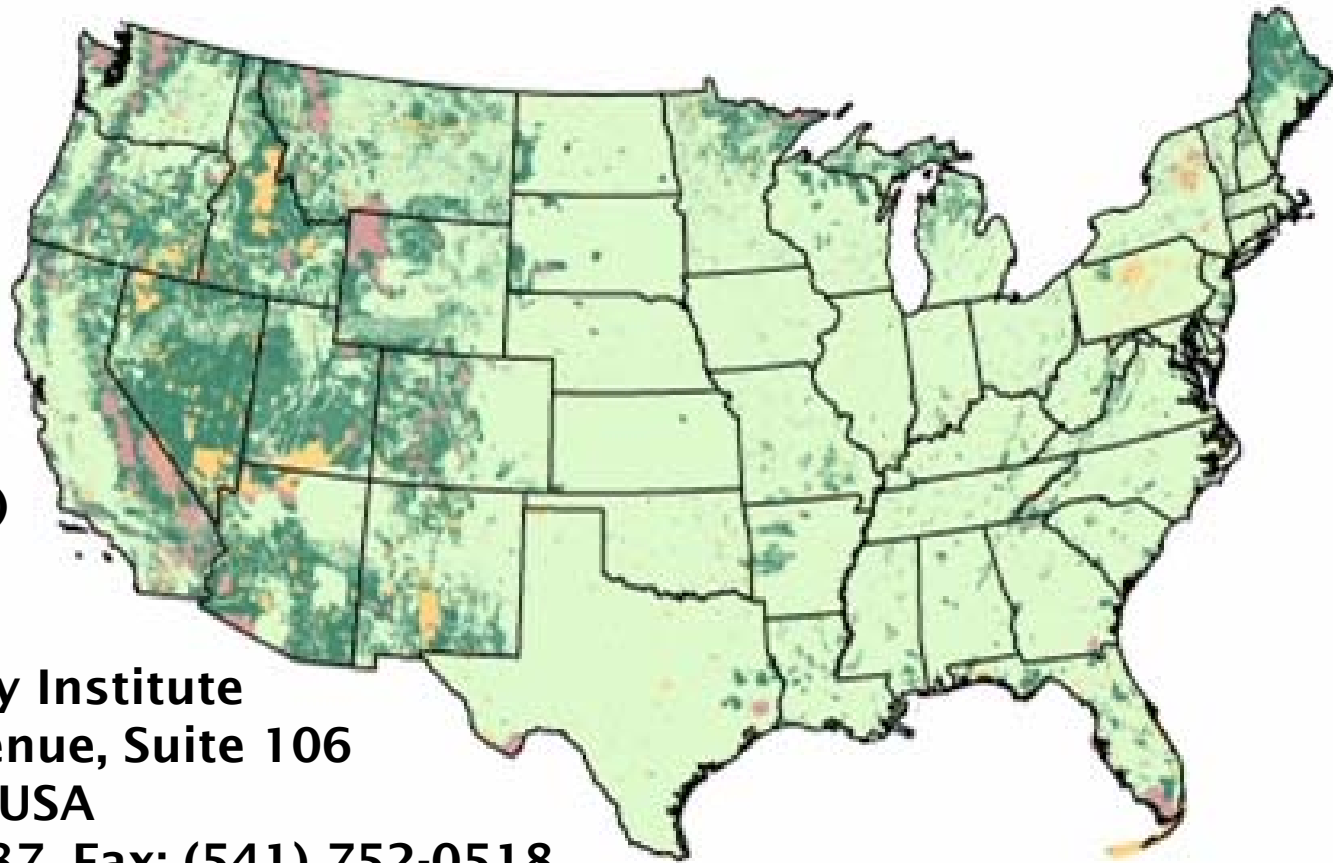


<http://birdcon.nbii.gov>

Stewardship Data

Protected Areas Database

Gap 1 
Gap 2 
Gap 3 

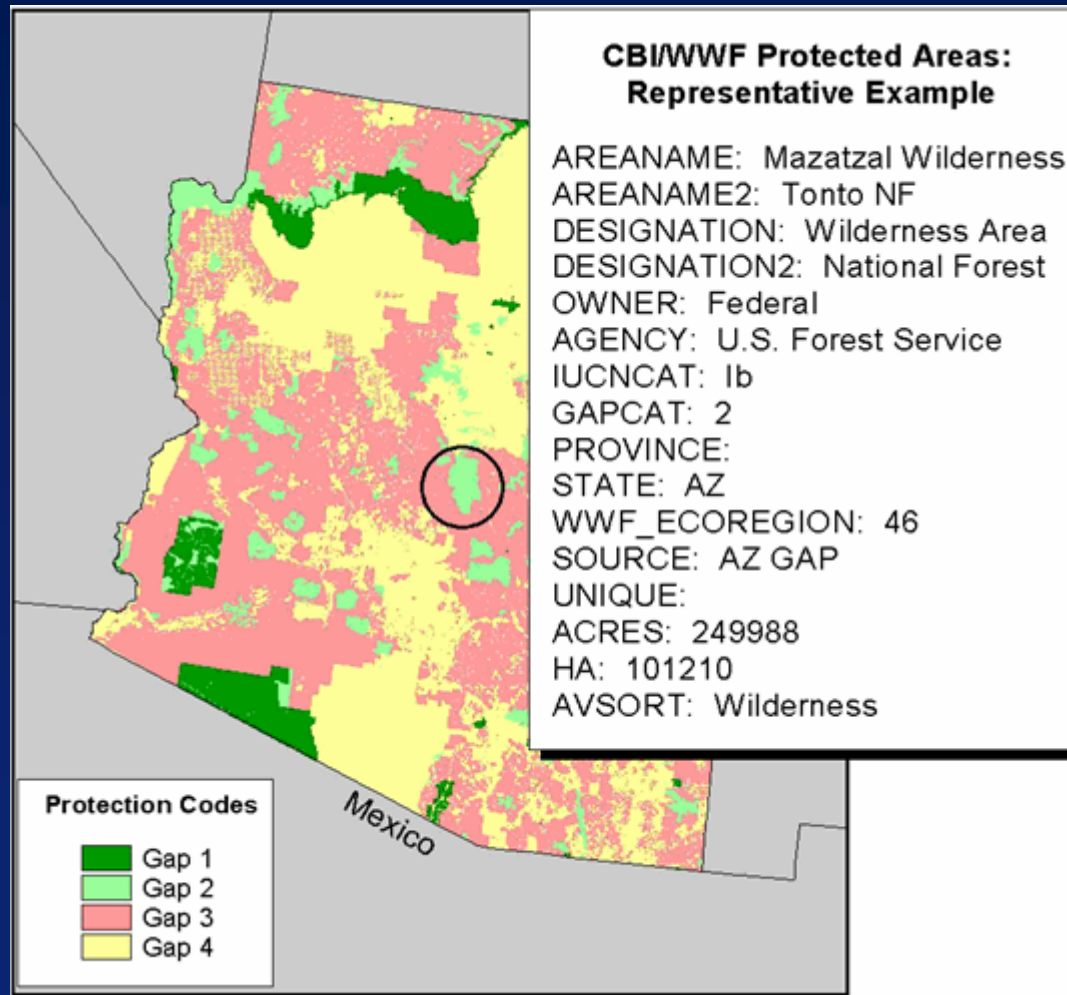


Version 4 (Jan. 2006)
CD-ROM \$35

Conservation Biology Institute
260 SW Madison Avenue, Suite 106
Corvallis, OR 97333 USA
Phone: (541) 757-0687, Fax: (541) 752-0518

<http://www.consbio.org/index>

Protected Areas Database



<http://www.consbio.org/index>

Climatic Data

Spatial Climate Analysis Service

SCAS
spatial climate analysis service

SPATIAL CLIMATE ANALYSIS SERVICE

OCS
OREGON CLIMATE SERVICE

[HOME](#) [PRODUCTS](#) [PROJECTS](#) [DOCUMENTATION](#) [HELP](#) [TERMS OF USE](#)

| [Print Friendly](#) | [A](#) [A](#) [A](#)

What's New!

6/14/05 : New [Document](#) added to online [documents](#).

5/23/05 : New [Presentations](#) available.

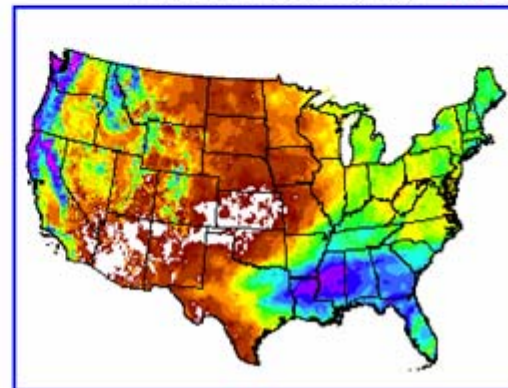
3/11/05 : [Data Alert!](#)

3/11/05 : [Presentations](#) now available! Limited but growing.

[Complete History](#)

WELCOME TO THE SPATIAL CLIMATE ANALYSIS SERVICE!

Latest PRISM Data - **Feb 2006**



[Precipitation](#)
[Max Temp](#)
[Min Temp](#)
[Dewpoint](#)
[PPT %](#)

Quick Links

[Data Alerts!](#)
[Monthly Data](#)
[1971-2000 Normals](#)
[Internet Map Server](#)

[Click to see full-size map.](#)

[More...](#)

Important notice:

These data sets have been developed through projects funded partly by the [USDA Natural Resources Conservation Service](#), [USDA Forest Service](#), [NOAA Office of Global Programs](#), and others. However, there is little operational funding for maintaining and updating this web site or the data sets. They are provided as a public service for a limited time. If you find them valuable, please consider doing your part to support the SCAS. [Contact us](#) for details.

This OSU SCAS web site provides access to the highest-quality spatial climate data sets currently available. These data sets were created using the PRISM climate mapping system, developed by Dr. Christopher Daly, SCAS director. PRISM is unique in that it incorporates a spatial climate knowledge base that accounts for rain shadows, temperature inversions, coastal effects, and more in the climate mapping process.

Use this site to [access](#) up-to-date and historical monthly climate data sets and graphics for the US, [explore](#) our data online with our Internet Map Server, [view](#) related papers and presentations, order [hardcopy maps](#), or [contact](#) us.

Best viewed with Internet Explorer 5.0+ or Netscape 6.0+

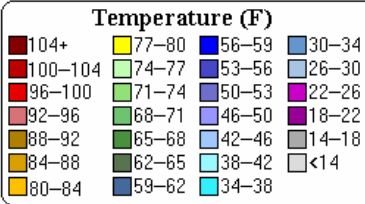
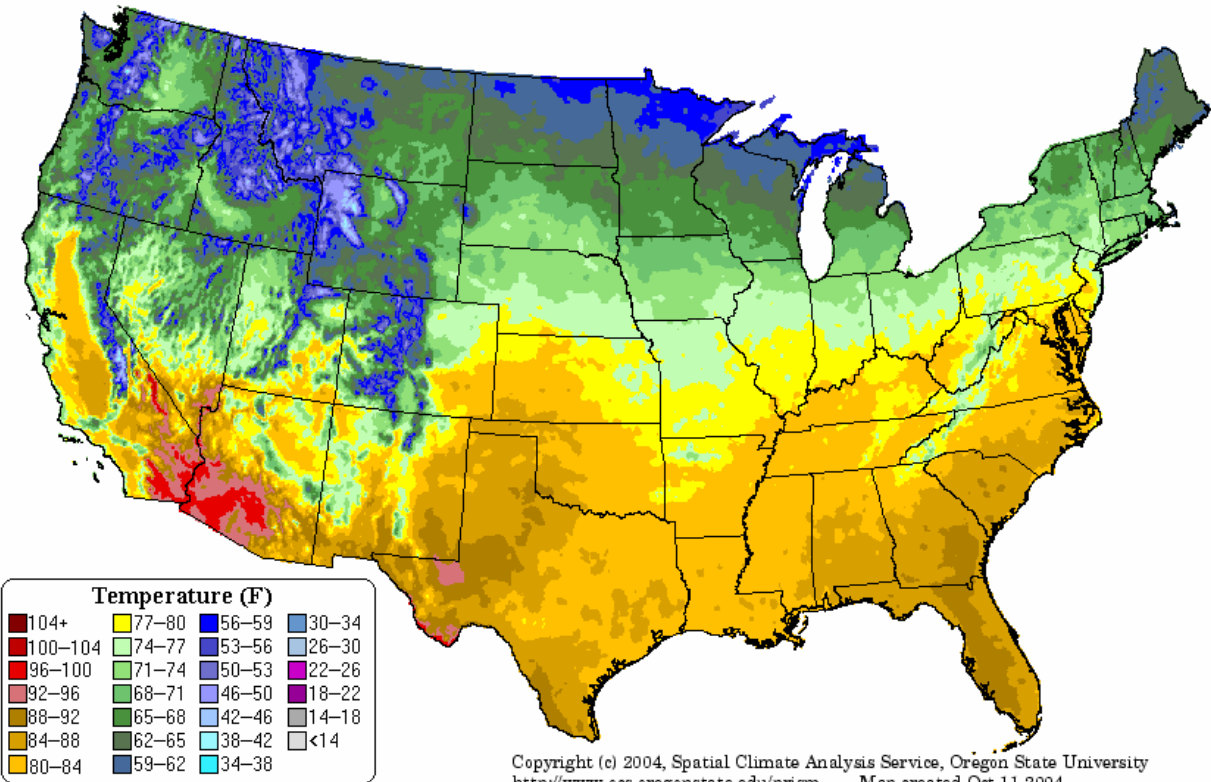
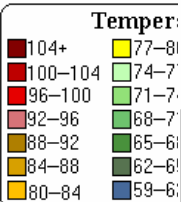
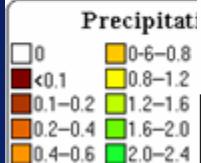
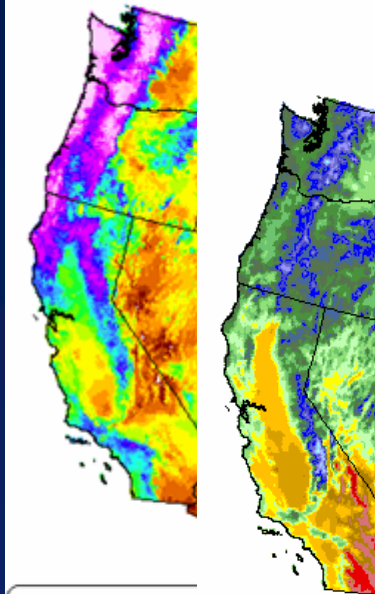
Spatial Climate Analysis Service (SCAS)

- ◆ PRISM modeling
 - Parameter-elevation Regressions on Independent Slopes Model
- ◆ MapServer Explorer
- ◆ ASCII grid format
- ◆ 4km resolution
- ◆ 2km data (high resolution) available through Climate Source at <http://www.climatesource.com>

Precipitation: Mar 2003
Final Data

Maximum Temperature: May 2004
Final Data

Maximum Temperature: May 2004
Final Data



Copyright (c) 2004, Spatial Climate Analysis Service, Oregon State University
http://www.ocs.oregonstate.edu/prism - Map created Oct 11 2004



Welcome to the DAYMET U.S. Data Center - A source for Daily Surface Weather Data and Climatological Summaries

Daymet is a model that generates daily surfaces of temperature, precipitation, humidity, and radiation over large regions of complex terrain. Daymet was developed at the University of Montana, Numerical Terradynamic Simulation Group ([NTSG](#)), to fulfill the need for fine resolution, daily meteorological and climatological data necessary for plant growth model inputs

Using a digital elevation model and daily observations of minimum and maximum temperatures and precipitation from ground-based meteorological stations, an 18 year daily data set (1980 - 1997) of temperature, precipitation, humidity and radiation has been produced as a continuous surface at a 1 km resolution. A wide range of summary and point daily data over the conterminous United States are now available.

No other data at this temporal and spatial resolution exists. This data is currently being distributed, free of charge, from the NTSG lab through its outreach component, the EOS Training Center Natural Resource Project.

The Daymet U.S. database is indexed by the Oak Ridge National Laboratory, Distributed Active Archive Center (ORNL DAAC), in their list of [Regional and Global Data for Global Change Research](#)

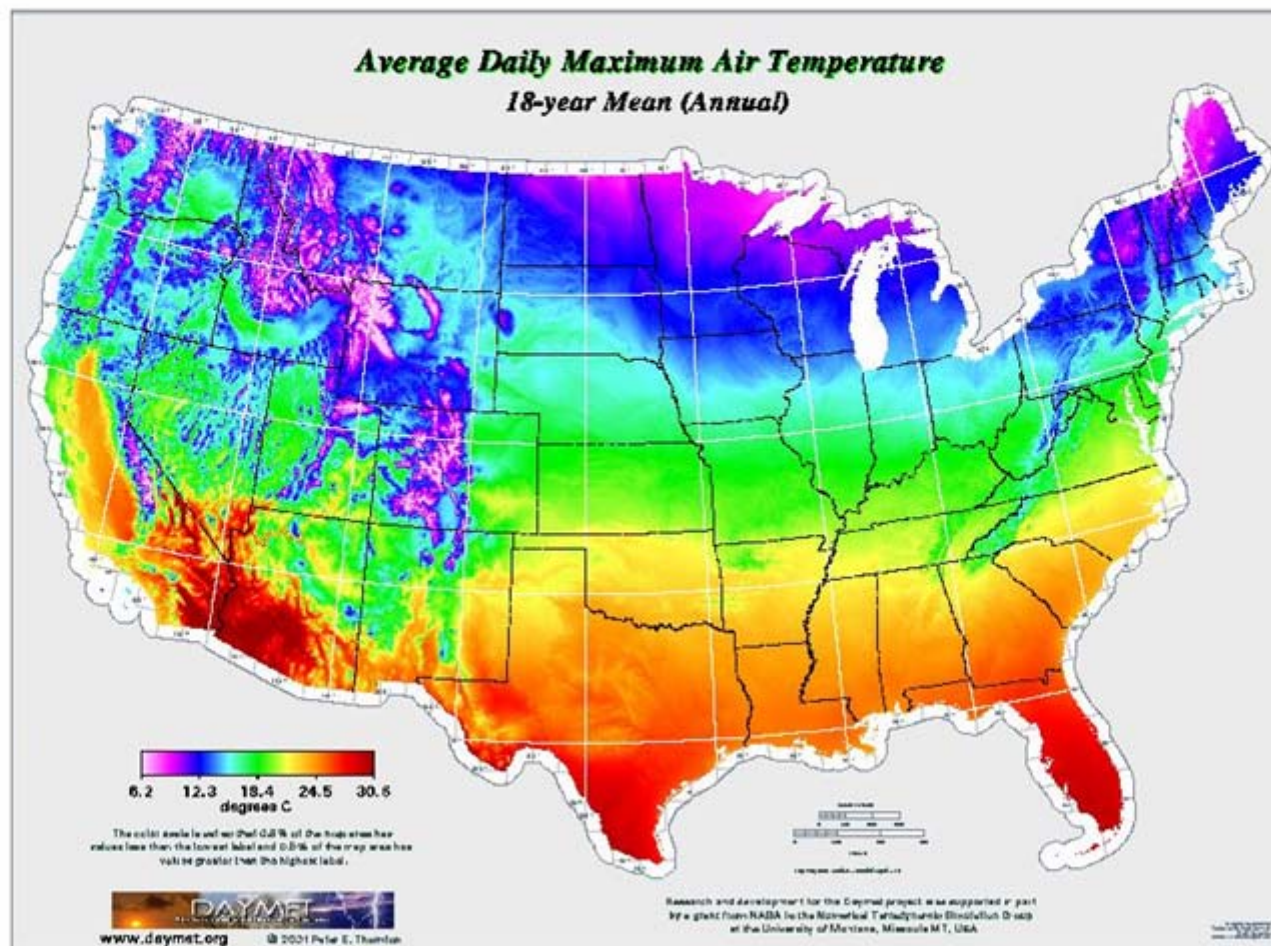
<http://www.daymet.org>

DAYMET

Daily Surface and Weather Climatological Summaries

- ◆ Utilizes a digital elevation model and daily observations of minimum and maximum temperatures and precipitation to create data sets
- ◆ Temperature
- ◆ Precipitation
- ◆ Humidity
- ◆ Radiation
- ◆ 1 km resolution
- ◆ 18 year daily data set

<http://www.daymet.org>



<http://www.daymet.org>

Summary

- ◆ Lots of data out there
- ◆ Access is getting easier
- ◆ Get to know the data sets you're working with. Most have flaws – some that may be critical to your output.

“Although conceptually
simple....applying the methodology
can be onerous”

Shifley and Thompson